### PATENT COOPERATION TREATY

From the INTERN.

R.N.A	TIONAL	. SEARCHING	AUTHORITY

To: LISA A. HAILE GRAY CARY WARE & FREIDENRICH LLP 4365 EXECUTIVE DRIVE, SUITE 1100 SAN DIEGO. CA. 92121-2133

### **PCT**

4365 EXECUTIVE DRIVE, SUITE 1100 SAN DIEGO, CA 92121-2133	INIT	WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY					
	IINI	INTERNATIONAL SEARCHING AUTHORITY					
		(PCT Rule 43bis.1)					
		Date of mailing (day/month/year) 0 6 JAN 2006					
Applicant's or agent's file reference	FOR	FURTHER .	ACTION See paragraph 2 below				
JHU2050WO							
International application No. Internation	onal filing date (day/mo	nth/year)	Priority date (day/month/year)				
PCT/US04/34534 20 Octob	er 2004 (20.10.2004)	).2004) 20 October 2003 (20.10.2003)					
International Patent Classification (IPC) or both na	tional classification and	IPC					
IPC(7): A61K38/00 and US Cl.: 514/12; 424/130.	1;						
Applicant							
THE JOHNS HOPKINS UNIVERSITY							
1. This resistance and indications relating to the	e following items:						
1. This opinion contains indications relating to the following items:							
Box No. I Basis of the opinion	Box No. I Basis of the opinion						
Box No. II Priority	Priority						
Box No. III Non-establishment of	opinion with regard to	novelty, inve	entive step and industrial applicability				
Box No. IV Lack of unity of inver	ox No. IV Lack of unity of invention						
Box No. V Reasoned statement u applicability; citations	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
Box No. VI Certain documents cit	Certain documents cited						
Box No. VII Certain defects in the	Certain defects in the international application						
Box No. VIII Certain observations	Box No. VIII Certain observations on the international application						
2. FURTHER ACTION							
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.							
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.  For further options, see Form PCT/ISA/220.							
3. For further details, see notes to Form PCT/ISA/220.							
Name and mailing address of the ISA/ US	Date of completion of	this	Authorized officer				
Mail Stop PCT, Attn: ISA/US	opinion		Sheek J Huff La J Walder				
Commissioner for Patents P.O. Box 1450	13 December 2005 (13	.12.2005)	100.				
Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201			Telephone No. 571-272-1600				

Form PCT/ISA/237 (cover sheet) (April 2005)

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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/34534

Box No. I Basis of this opinion				
1. With regard to the language, this opinion has been established on the basis of:				
the international application in the language in which it was filed				
a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).				
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:				
a. type of material				
a sequence listing				
table(s) related to the sequence listing				
b. format of material				
on paper				
in electronic form				
c. time of filing/furnishing				
contained in the international application as filed.				
filed together with the international application in electronic form.				
furnished subsequently to this Authority for the purposes of search.				
In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.				
4. Additional comments:				

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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/34534

Box No. IV Lack of unity of invention
In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has, within the applicable time limit:  paid additional fees  paid additional fees under protest and, where applicable, the protest fee  paid additional fees under protest but the applicable protest fee was not paid  not paid additional fees
2. This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.
3. This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is  complied with  not complied with for the following reasons:  See the lack of unity section of the International Search Report(Form PCT/ISA/210)
4. Consequently, this opinion has been established in respect of the following parts of the international application:  all parts.  the parts relating to claims Nos. 1-23

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### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/34534

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
1. Stater							
	Novelty (N)		Claims	NONE			YES
	11010119 (11)			1-23	•		NO
	Inventive step (IS)		Claims	NONE			YES
			Claims	1-23	<del> </del>		NO
							VEC
	Industrial applicability	(IA)					YES NO
			Claims	NONE			NO
2. Citatio	ons and explanations:						_
Claims 1	23 lack novelty under PCT	Article 33(2) as bei	ing anticip	ated by LAME	B et al.		
l	This reference describes the	e use of a modulato	r of a hed	gehog signaling	g pathway and th	e use in the treatm	ent of a disorder.
The modu molecule.	rilator can be an antagonist a  The disorder to be treated	and can be cyclopan includes small cell	nine. The lung canc	modulator car er.	i aiso de a nucie	ic aciu, peptide, ari	tibody of silian
	23 meet the criteria set out				l applicability be	cause the subject r	natter claimed can
be made	or used in industry.	•					
I .							